COURSE SYLLABUS
ME 102
Spring 2015

INSTRUCTOR
Tom Johnston

TA
To be Announced

OFFICE HOURS AND CONTACT INFORMATION
W, F – 11:00 -12:00
Room E221B
E-mail: johnston@engineering.sdsu.edu.
Phone: 619.594.3482

TEXTBOOKS
• Johnston, T., ME 102 Supplemental Course Materials, Montezuma Publishing, 2015
• Jensen, Solid Modeling 2 – Custom Edition for ME 102 7th Ed, Cengage/Thomson Learning
• SolidProfessor, SolidProfessor - SolidWorks Tutorials

SOFTWARE
• Creo and SolidWorks Student Software
  o Check Blackboard Site for free software

SUPPLIES
• USB Thumb Drive (Put your Name/Section on it)

RELATION TO CURRICULUM
• Level – Second Semester
• Prerequisites – ME 101
• Credits - 2 Semester Hours

STUDENT LEARNING OUTCOMES
• Develop Further Understanding of:
  o Intermediate and Advanced Creo Parametric 3.0
  o Intermediate and Advanced SolidWorks 2014-2015
  o General and Dimensional Tolerancing as per ASME Y14.5M-1994
• Develop Understanding of:
  o Standard Fits
  o Geometric Tolerancing as per ASME Y14.5M-1994
  o Finite Element (FEA) Analysis using Pro/Mechanica and Cosmos (SolidWorks Simulation)
  o NC Manufacturing using HSMWorks
• Have a Signed ME Department Master Plan
• Discuss the need to keep up with current versions of CAD software and to be able to learn new software quickly throughout your entire career

ABET PROGRAM OUTCOMES
5. an ability to identify, formulate, and solve engineering problems
7. an ability to communicate effectively
9. a recognition of the need for an ability to engage in life-long learning
11. an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice
## COURSE CONTENT

<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>TOOL</th>
<th>DURATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pro/Engineer</td>
<td>Creo</td>
<td>5 Weeks</td>
</tr>
<tr>
<td>• Advanced Features</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Advanced Drawing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Tolerancing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Surfacing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SolidWorks</td>
<td>SolidWorks</td>
<td>5 Weeks</td>
</tr>
<tr>
<td>• Advanced Features</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Advanced Drawing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Tolerancing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Surfacing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Finite Element Analysis</td>
<td>Pro/Mechanica</td>
<td>1 Week</td>
</tr>
<tr>
<td></td>
<td>SolidWorks Simulation</td>
<td></td>
</tr>
<tr>
<td>NC Manufacturing</td>
<td>HSMWorks</td>
<td>1 Week</td>
</tr>
<tr>
<td>Final Project</td>
<td>All Necessary Tools</td>
<td>3 Weeks</td>
</tr>
<tr>
<td>Documentation Standards</td>
<td>Textbook Assignments and Quizzes</td>
<td>Throughout Course</td>
</tr>
</tbody>
</table>

**TOTAL:** 15 Weeks

## CLASS POLICIES

- Lectures will be given to explain new material and assignments.
- Assignments are due at the **Beginning** of the assigned class period.
- All projects are due on the Due Date – No Late Work Accepted
- Most assignments are turned in/checked off on the computer
- Students must use the **Same Filenames for Parts, Drawings, Assemblies and their related folders** as specified on the assignments.
- Not all work can be completed in class time. **Extra time in our lab, or at home is required.**
- The open lab schedule is posted in the lab and on the class website.
- There may be quizzes, pop quizzes, a mid-term examination and a final examination.
- Students share the responsibility of checking their class scores.
- Back up all files and folders on your USB Thumb Drive and at least one other location.
- Tests, quizzes and assignments can ONLY be made up with a reasonable excuse.
- Points will be removed for talking during lecture.
- Contact the instructor via E-Mail if you are going to be absent.
- Cheating and Plagiarism - Automatic 0 Points on the assignment. Dealt with by the Department, Dean’s Office and the Office of Judicial Review

## GRADING PROCEDURES

- Final grade is based on a percentage of the total possible points (no curve).
- Late assignments will be automatically lowered 50% of their total possible points and lowered 10% per class meeting after that.
- **Final Grade will be lowered one letter grade without a signed Master Plan**
- A few extra points **may** be earned by good attendance and class participation (don't wait until the end of the semester). No extra credit assignments.

**Show Up, Keep Up, Pay Attention & Perform!**
SYLLABUS STATEMENT
for Students with Disabilities

If you are a student with a disability and believe you will need accommodations for this class, it is your responsibility to contact Student Disability Services at (619) 594-6473. To avoid any delay in the receipt of your accommodations, you should contact Student Disability Services as soon as possible. Please note that accommodations are not retroactive, and that I cannot provide accommodations based upon disability until I have received an accommodation letter from Student Disability Services. Your cooperation is appreciated.